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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/704,968	11/02/2000	Tetsuo Shibanuma	097929-4689	4432
	590 05/16/2003			
David R Metzger Sonnenschein Nath & Rosenthal P O Box #016080			EXAMINER	
			HUANG, EVELYN MEI	
Wacker Drive Station Chicago, IL 60606-1080			ART UNIT	PAPER NUMBER
			. 1625	10
			DATE MAILED: 05/16/2003	$U\mathfrak{H}$

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Applicati n N . Applicant(s)		
	09/704,968	SHIANUMA ET AL.	
Office Action Summary	Examiner	Art Unit	
•	Evelyn Huang	1625	
The MAILING DATE of this c mmunicati n app Period for Reply	pears on the cover sheet wi	th the correspondenc address	
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory period - Failure to reply within the set or extended period for reply will, by statute - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a re y within the statutory minimum of thirt will apply and will expire SIX (6) MON a, cause the application to become AB	ply be timely filed (30) days will be considered timely. IHS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).	
Status			
1) Responsive to communication(s) filed on			
,	nis action is non-final.		
 Since this application is in condition for allowed closed in accordance with the practice under Disposition of Claims 			
4)⊠ Claim(s) <u>11,13,14 and 16-19</u> is/are pending ir	the application.		
4a) Of the above claim(s) is/are withdra			
5) Claim(s) 11 is/are allowed.			
6)⊠ Claim(s) <u>13,14 and 16-19</u> is/are rejected.			٠
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/o	or election requirement.		
Application Papers	•		
9) The specification is objected to by the Examine	er.		
10) The drawing(s) filed on is/are: a) □ acce	pted or b)☐ objected to by ti	ne Examiner.	
Applicant may not request that any objection to the	e drawing(s) be held in abeya	nce. See 37 CFR 1.85(a).	
11)☐ The proposed drawing correction filed on	_ is: a)⊡ approved b)⊡ d	sapproved by the Examiner.	
If approved, corrected drawings are required in re	ply to this Office action.		
12) The oath or declaration is objected to by the Ex	kaminer.		
Priority under 35 U.S.C. §§ 119 and 120			
13) Acknowledgment is made of a claim for foreig	n priority under 35 U.S.C. §	3 119(a)-(d) or (f).	
a)⊠ All b)□ Some * c)□ None of:		•	
1. Certified copies of the priority document	ts have been received.		
2. Certified copies of the priority document	ts have been received in A	oplication No	
 3. Copies of the certified copies of the prior application from the International But * See the attached detailed Office action for a list 	reau (PCT Rule 17.2(a)).	_	
14) Acknowledgment is made of a claim for domest	·		
a) The translation of the foreign language pro	•		•
15) Acknowledgment is made of a claim for domes	· · · · · · · · · · · · · · · · · · ·		
Attachment(s)			
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of I	Summary (PTO-413) Paper No(s) nformal Patent Application (PTO-152)	

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DETAILED ACTION

1. Claims 11, 13, 14, 16-19 are pending.

Claim Rejections - 35 USC § 112(2)

2. The rejection for Claims 11, 13, 14, 16-19 under 35 U.S.C. 112, second paragraph is withdrawn for claim 11 in view of the amendment, but is maintained for claims 13, 14, 16-19.

Applicant maintains that claim 13, 14 are compound claims. While it is permissible to cite the use of the compound in the claim as argued by the applicant, it is unclear which compound is being claimed as recited in the instant wherein the bathophenanthroline compound are mentioned twice in different context.

For Claims 16-19, Applicant argues that it is not a product claim and so the product need not be recited. On the contrary, just listing some steps without reciting the end product is incomplete and is therefore indefinite in scope. Applicant cites the claims of issued patent directed to 'method of irradiating a portion of human body comprising...' where the end product is not recited. The claim in the cited patent is a method of use claim where the end product is irrelevant, whereas the instant claim is a process of making claim where the product is an essential element to the invention. See MPEP § 2172.01.

Claim Rejections - 35 USC § 102

3. The rejection for Claims 13, 16-19 under 35 U.S.C. 102(b) as being anticipated by Sugihara (cited in PTO-892 mailed on 7-25-2001) is maintained for reasons of record. The process (page 594) of making compound 6, 8, 10, 12 (page 593) is encompassed by the instant process claims 16-17. The compound of RN 51786-73-3 (compound 14 on page 593) and the process of preparation thereof, are encompassed by the instant claims 13, 18, 19.

Applicant did not address the rejection for claim 13.

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Applicant maintains that Sugihara does not teach the limitation of claims 16, 18 and contends that the Examiner simply recanting the end product. The prior art process of making the compounds 6, 8, 10, 12 as described on page 593 and the prior art process of making compound 14 as described on page 593 wherein the butyl lithium or phenyl lithium is reacted with the 4,7 diphenyl-1,10 phenanthroline is identical to the steps recited in the instant. The claims as recited embrace the prior art compound and process of making.

Applicant argues that Sugihara does not recite the carbanion formation and nucleophilic reaction. However, when Sugihara uses the same reactants and steps as the instant, the same nucleophilic reaction and carbanion formation would occur. Furthermore, the mechanism of a reaction is not patentable. If applicant contends that the product formed by the instant process is different from the compounds prepared by the process of Sugihara, then the products formed by the instant process should be recited in the claims to set a demarcation from the prior art.

4. The rejection for Claim 13 under 35 U.S.C. 102(b) as being anticipated by Dietrich-Buchecker (cited in PTO-892 mailed on 7-25-2001) is maintained for reasons of record. Compounds of RN 107428-38-6 and 107428-37-5 are encompassed by the instant claim.

Applicant did not address this rejection.

Claim Rejections - 35 USC § 103

5. The rejection for Claim 11 under 35 U.S.C. 103(a) as being unpatentable over Juda (3951833, cited in PTO-892 mailed on 7-25-2001) is withdrawn upon reconsideration in view of the amendment and Applicant's remarks.

Conclusion

6. Claim 11 is allowed.

Juda's Example 27 (3951833, column 8, Table V) has methyl whereas the instant has ethyl as R1 and R2. Since the activity score of Example 27 is below the score of the acceptable

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biocide (column 8, lines 50-55, 65), motivation to modify Juda's Example 27 by replacing the methyl with the homologous ethyl to arrive at the instant invention is lacking.

7. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Evelyn Huang whose telephone number is 703-305-7247. The examiner can normally be reached on Tuesday-Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alan Rotman can be reached on 703-308-4698. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4556 for regular communications and 703-308-4556 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

Primary Examiner

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